

INTERNATIONAL SEARCH REPORT

Int'l. Application No
PCT/IB2004/003474A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07D501/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 2004/111059 A (ORCHID CHEMICALS & PHARMACEUTICALS LTD; DESHPANDE, PANDURANG, BALWANT;) 23 December 2004 (2004-12-23) page 3, line 5 – page 6, line 10; claims 1–6; examples 1,2	1–20
P, X	WO 03/089406 A (ORCHID CHEMICALS AND PHARMACEUTICALS LIMITED; DESHPANDE, PANDURANG, BA) 30 October 2003 (2003-10-30) page 3, line 28 – page 6, line 10; claims 1–15; example 4	1–20
X	WO 03/004477 A (ORCHID CHEMICALS & PHARMACEUTICALS LIMITED; DESHPANDE, PANDURANG, BALW) 16 January 2003 (2003-01-16) pages 4–5; claims 5–12	1–20
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 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the International filing date but later than the priority date claimed

- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the International search

30 May 2005

Date of mailing of the International search report

14.06.2005

Name and mailing address of the ISA

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Inter Application No
PCT/IB2004/003474

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00/63214 A (BIOCHEMIE GESELLSCHAFT M B H; GERLACH, BENJAMIN; LUDESCHER, JOHANNES;) 26 October 2000 (2000-10-26) cited in the application page 1 - page 10; claims 1-5 -----	1-20
X	EP 0 842 937 A (HICHEM PHARMA S.P.A; S.B.D. S.R.L) 20 May 1998 (1998-05-20) page 4 - page 5; claims 1,2 -----	1-20
X	EP 0 030 294 A (F. HOFFMANN-LA ROCHE & CO. AKTIENGESELLSCHAFT) 17 June 1981 (1981-06-17) page 1 - page 6, line 30; claims 1-16 -----	1-20
X	EP 0 324 418 A (TAKEDA CHEMICAL INDUSTRIES, LTD) 19 July 1989 (1989-07-19) page 4 - page 9, line 15; claims 2-16; example 3 -----	1-20
X	US 2002/156272 A1 (GERLACH BENJAMIN ET AL) 24 October 2002 (2002-10-24) column 1 - column 7, line 76; examples 1-3 -----	1-12
X	US 2002/028931 A1 (DANDALA RAMESH ET AL) 7 March 2002 (2002-03-07) page 1, column 2, paragraph 11 - page 2, column 2, paragraph 24; examples 1-4 -----	1-20

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-20

A process of preparation of ceftriaxone and pharmaceutical compositions comprising it

2. claims: 1-20

A process of preparation of cefotaxime and pharmaceutical compositions comprising it

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern'l Application No

INTERNATIONAL SEARCH REPORT

Information on patent family members

Item	Application No
PCT/IB2004/003474	

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
EP 0324418	A		CN 1124737 A	19-06-1996
			EP 0324418 A2	19-07-1989
			HU 49884 A2	28-11-1989
			HU 202184 B	28-02-1991
			US 5109131 A	28-04-1992
			US 5183929 A	02-02-1993
US 2002156272	A1	24-10-2002	AT 411598 B	25-03-2004
			AT 412214 B	25-11-2004
			AU 3967000 A	02-11-2000
			WO 0063214 A1	26-10-2000
			EP 1169324 A1	09-01-2002
			US 2002128469 A1	12-09-2002
			AT 76399 A	15-08-2003
			AT 408225 B	25-09-2001
			AT 1522000 A	15-02-2001
			AT 80099 A	15-04-2004
US 2002028931	A1	07-03-2002	NONE	